

# When Covid-19 first struck: analysis of the influence of structural characteristics of countries - technocracy is strengthened by open democracy

Supporting Information S3 Table

## Data Sources

*Note* – Supporting Information S1 Table gives the reason for selection of each data item.

### DEMOGRAPHIC and SOCIO-ECONOMIC

#### Population (million) 2019

Total national population as obtained by the World Bank from national census and other sources.

<https://data.worldbank.org/indicator/SP.POP.TOTL?view=chart>

*Accessed 25 November 2020*

#### Dependent Population % - 2019

Age Dependency Ratio - World Bank staff estimates based on age distributions of United Nations Population Division's World Population Prospects: 2019 Revision.

<https://data.worldbank.org/indicator/SP.POP.DPND?view=chart>

*Accessed 25 November 2020*

#### Urban Population % - 2017

Percentage of population living in urban settings (as defined by national statistical offices)

<https://ourworldindata.org/urbanization>

*Accessed 19 November 2020*

#### Urban Population (million) - 2019

Computed within the study from the foregoing data.

#### Population Density per sq. km - 2018

People per square kilometre of land area

<https://databank.worldbank.org/reports.aspx?source=2&series=EN.POP.DNST&country=>

*Accessed 19 November 2020*

### Population over 65 % - 2019

Persons aged 65 years and over as percentage of total population

<https://data.worldbank.org/indicator/SP.POP.65UP.TO.ZS?view=chart>

*Accessed 25 November 2020*

### GDP per capita - 2019

Gross Domestic Product (GDP) per capita in US \$

<https://databank.worldbank.org/reports.aspx?source=2&series=NY.GDP.PCAP.CD&country=>

*Accessed 18 November 2020*

### Gini Index - 2017

A recognised measure of inequality of distribution (in this case income), where perfect equality scores 0 and maximum inequality scores 100. This source is computed by the World Bank from data based on primary household survey data obtained from government statistical agencies and World Bank country departments.

<https://data.worldbank.org/indicator/SI.POV.GINI?end=2018&start=1967&view=chart>

*Accessed 18 November 2020*

### Income share lowest 10%

Percentage share of income held by the low 10% of population in terms of income.

<https://datacatalog.worldbank.org/income-share-held-lowest-10-0>.

*Accessed 19 November 2020*

### Living in Material Poverty % -2019

Percentage of the population living below the poverty line, based on local surveys and related cut-off basic income points, as compiled for the CIA World Factbook

<https://www.indexmundi.com/g/r.aspx?v=69>

*Accessed 18 November 2020*

### Tertiary Education Enrolment - 2018

Persons regardless of age enrolled in tertiary education, related to the population in the age-group officially associated with tertiary education. High figures may indicate more older students enrolling, slower completion, or multiple registrations for different courses.

<https://ourworldindata.org/tertiary-education>

*Accessed 19 November 2020*

<https://databank.worldbank.org/reports.aspx?source=2&series=SE.TER.ENRR&country=>

*Accessed 9 March 2021*

### Tertiary Education Completion - 2010

Share of population aged 15 and over who have completed tertiary education

<https://ourworldindata.org/tertiary-education>

*Accessed 19 November 2020*

## **SOCIETAL VALUES**

### Human Development Index - 2017

The Human Development Index (HDI) is a summary measure of average achievement in key dimensions of human development: a long and healthy life, being knowledgeable and have a decent standard of living.

<http://hdr.undp.org/en/indicators/137506#>

*Accessed 19 November 2020*

### World Happiness Index - 2020

Compiled from survey measures of life satisfaction to track the quality of lives as they are being lived in more than 150 countries.

<https://worldhappiness.report/ed/2020/social-environments-for-world-happiness/>

*Accessed 20 November 2020*

### Life Satisfaction OECD - 2017

Assessed by OECD, Life Satisfaction measures how people evaluate their life as a whole rather than their current feelings.

<http://www.oecdbetterlifeindex.org/topics/life-satisfaction/>

*Accessed 20 November 2020*

#### Trust in News Media - 2017

Results of a survey on the level of trust in news media in selected European countries in 2017.

<https://www.statista.com/statistics/308468/importance-brand-journalist-creating-trust-news/>

*Accessed 20 November 2020*

#### Trust in Written Press - 2017

Results of a survey on the level of trust in the written press in the EU 28 countries in 2017.

<https://www.statista.com/statistics/454403/europe-trust-in-the-written-press-by-country/>

*Accessed 20 November 2020*

#### Population using Internet - 2018

<https://www.cia.gov/the-world-factbook/field/internet-users/>

*Accessed 7 January 2021*

#### Civil Society Participation - 2018

A World Bank measurement from an expert survey considering the extent to which the population is engaged in civil society activities, ranging from 0 as low to 1 as high.

[https://govdata360.worldbank.org/indicators/h8be2e7d4?country=AUT&indicator=41827&countries=BRA&viz=line\\_chart&years=1975,2018](https://govdata360.worldbank.org/indicators/h8be2e7d4?country=AUT&indicator=41827&countries=BRA&viz=line_chart&years=1975,2018)

*Accessed 2 January 2021*

#### Public Services Fragility - 2017

A measure of the fragility of public services, quoted by the World Bank as Public Service Value, with the source incorrectly referred to as the Failed States Index. The source used by the World Bank is the Fragile States Index - <https://fragilestatesindex.org/excel/>. Scores range up to 10 as most fragile.

[https://govdata360.worldbank.org/indicators/hb1c17281?country=BRA&indicator=28911&viz=line\\_chart&years=2006,2017](https://govdata360.worldbank.org/indicators/hb1c17281?country=BRA&indicator=28911&viz=line_chart&years=2006,2017)

*Accessed 2 January 2021*

### Good or very good health 2017

From the European Values Survey and World Values Survey, the percentage of respondents reporting their own state of health as Very Good or Good.

<https://www.atlasofeuropeanvalues.eu/maptool.html>

(this link directs to the map, in the searcher "Impression of own health" should be chosen, the results show the Percentage of people that describe their health as Good or Very Good

*Accessed 4 January 2021*

### Good or very good health - WVS (2017-2020)

[WVS Database \(worldvaluessurvey.org\)](https://www.worldvaluessurvey.org)

the link directs to the online data analysis page, the wave 2017-2020 should be chosen, then the countries should be selected, and then the question (state of health subjective) should be chosen.

*Accessed 20 January 2021*

### Religion Important - 2018

Percentage of the population considering Religion to be important, ascertained by Pew Research Centre's Religion and Public Life Project

<https://assets.pewresearch.org/wp-content/uploads/sites/11/2018/06/12094010/Appendix-C.pdf>

*Accessed 10 December 2020*

### Religion Weekly Practice - 2018

Percentage of the population reporting taking part in Religious Practice weekly, ascertained by Pew Research Centre's Religion and Public Life Project

<https://assets.pewresearch.org/wp-content/uploads/sites/11/2018/06/12094010/Appendix-C.pdf>

*Accessed 10 December 2020*

## **PUBLIC TRUST and AWARENESS**

### Confidence in Health System - 2017

Percentage of people that have a great deal or quite a lot of confidence in the health care system

<https://www.atlasofeuropeanvalues.eu/maptool.html>.

*Accessed 4 January 2021*

### Confidence in social media - 2017

Percentage of people that have a great deal or quite a lot of confidence in social media

<https://www.atlasofeuropeanvalues.eu/maptool.html>.

*Accessed 4 January 2021*

### Confidence in Government – 2017 (WVS-EVS)

Percentage of people that have a great deal or quite a lot of confidence in Government

<https://europeanvaluesstudy.eu/methodology-data-documentation/survey-2017/joint-evs-wvs-2017-2021-dataset/>

*Accessed 4 January 2021*

### Follow politics on TV - 2017

Percentage of people who follow politics on television every day or several times a week

<https://www.atlasofeuropeanvalues.eu/maptool.html>.

*Accessed 4 January 2021*

### Follow politics social media - 2017

Percentage of people who follow politics on social media every day or several times a week

<https://www.atlasofeuropeanvalues.eu/maptool.html>.

*Accessed 4 January 2021*

### Follow politics on radio - 2017

Percentage of people who follow politics on the radio every day or several times a week

<https://www.atlasofeuropeanvalues.eu/maptool.html>.

*Accessed 4 January 2021*

## **PUBLIC HEALTH**

### Infant Mortality - 2020

<https://www.cia.gov/the-world-factbook/countries/>

<https://www.cia.gov/the-world-factbook/countries/austria/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/belgium/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/bulgaria/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/croatia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/cyprus/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/czechia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/denmark/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/estonia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/finland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/france/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/germany/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/greece/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/hungary/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/ireland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/italy/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/latvia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/lithuania/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/luxembourg/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/malta/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/netherlands/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/poland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/portugal/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/romania/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/slovakia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/slovenia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/spain/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/sweden/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/iceland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/norway/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/switzerland/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/united-kingdom/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/australia/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/canada/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/chile/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/colombia/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/israel/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/japan/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/korea-south/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/mexico/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/new-zealand/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/turkey/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/united-states/> (accessed 7.01.2021)

The data was collected by checking each country profile

*Accessed 7 January 2021*

### Life Expectancy -2020

<https://www.cia.gov/the-world-factbook/countries/>

<https://www.cia.gov/the-world-factbook/countries/austria/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/belgium/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/bulgaria/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/croatia/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/cyprus/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/czechia/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/denmark/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/estonia/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/finland/> (accessed 7.01.2021)  
<https://www.cia.gov/the-world-factbook/countries/france/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/germany/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/greece/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/hungary/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/ireland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/italy/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/latvia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/lithuania/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/luxembourg/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/malta/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/netherlands/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/poland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/portugal/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/romania/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/slovakia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/slovenia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/spain/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/sweden/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/iceland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/norway/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/switzerland/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/united-kingdom/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/australia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/canada/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/chile/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/colombia/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/israel/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/japan/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/korea-south/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/mexico/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/new-zealand/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/turkey/> (accessed 7.01.2021)

<https://www.cia.gov/the-world-factbook/countries/united-states/> (accessed 7.01.2021)

The data was collected by checking each country profile

*Accessed 7 January 2021*

Additionally it can be also found here:

[https://photius.com/rankings/2020/population/life\\_expectancy\\_at\\_birth\\_total\\_population\\_2020\\_0.html](https://photius.com/rankings/2020/population/life_expectancy_at_birth_total_population_2020_0.html) (accessed 15 March 2021)

Current smokers % - 2012

Percentage of the population over 15 who smoke daily.

<https://ourworldindata.org/smoking>

*Accessed 8 September 2020*

Cervical Screening % - 2016

Percentage of women aged 20-69 years screened within the past 3 years.

[https://www.oecd-ilibrary.org/sites/health\\_glance\\_eur-2018-41-en/index.html?itemId=/content/component/health\\_glance\\_eur-2018-41-en](https://www.oecd-ilibrary.org/sites/health_glance_eur-2018-41-en/index.html?itemId=/content/component/health_glance_eur-2018-41-en)

*Accessed 9 December 2020*

MCV1 Immunisation % - 2017

WHO/UNICEF Estimates of National Immunization Coverage (WUENIC)

<https://www.who.int/teams/immunization-vaccines-and-biologicals/immunization-analysis-and-insights/global-monitoring/data-statistics-and-graphics>

*Accessed 7 December 2020*

Flu vaccination > 65 % - 2019

## **HEALTHCARE SYSTEM**

Spend \$ per capita - 2018 or most recent available

Current expenditure on health (all functions), all financing schemes, per capita, current prices, Purchasing Power Parity adjusted, in us dollars.

<https://stats.oecd.org/Index.aspx?DataSetCode=SHA>

*Accessed 7 December 2020*

Doctors per 1,000 - 2018 or most recent available

"Practising" or "professionally active" doctors, per 1,000 inhabitants.

<https://data.oecd.org/healthres/doctors.htm>

*Accessed 8 December 2020*

Health Employees 1,000 - 2018

Total health and social care employees per million population

<https://stats.oecd.org/index.aspx?lang=en>

*Accessed 8 December 2020*

Hospital beds per 1,000 -

<https://data.oecd.org/healthgt/hospital-beds.htm>

*Accessed 8 December 2020*

Acute Hosp beds per 1,000 – 2017 or latest year

Acute hospital beds of all types, per resident population.

[https://read.oecd-ilibrary.org/view/?ref=119\\_119689-ud5comtf84&title=Beyond\\_Containment:Health\\_systems\\_responses\\_to\\_COVID-19\\_in\\_the\\_OECD](https://read.oecd-ilibrary.org/view/?ref=119_119689-ud5comtf84&title=Beyond_Containment:Health_systems_responses_to_COVID-19_in_the_OECD)

*Accessed 8 December 2020*

Health R&D Funding \$ -

<https://stats.oecd.org/>

*Accessed 8 December 2020*

POLITICAL PROCESS

Trust in Government - 2018

In an OECD study, the share of people who report having confidence in the national government.

<https://data.oecd.org/gga/trust-in-government.htm>

*Accessed 7 December 2020*

### Corruption Perception - 2018

Reported by the World Bank, calculated to capture perceptions of corruption within the past two years. The data sources are standardized to a scale of 0-100 where 0 equals the highest level of perceived corruption and 100 equals the lowest level of perceived corruption.

[https://govdata360.worldbank.org/indicators/h345264a2?country=BRA&indicator=32534&viz=line\\_chart&years=2015,2018](https://govdata360.worldbank.org/indicators/h345264a2?country=BRA&indicator=32534&viz=line_chart&years=2015,2018)

*Accessed 7 December 2020*

### Taken Scientific Advice (Study) - 2020

Responding to a survey of researchers undertaken by the journal Frontiers in Public Health, the proportion of respondents who believed that political policy makers in their country had sufficiently considered scientific advice, the response ranging from 99 to 3,335 scientists per country..

<https://www.frontiersin.org/articles/10.3389/fpubh.2020.621563/full>

*Accessed 30 November 2020*

### Ages of PM - 2020

The age of the Prime Minister, or national post equivalent.

Google searches per country

*Accessed 10 December 2020*

### PM Gender – 2020

The gender of the Prime Minister, or national post equivalent.

Google searches per country

*Accessed 10 December 2020*

### Voting System - 2020

The type of voting system in each country.

[https://en.wikipedia.org/wiki/List\\_of\\_electoral\\_systems\\_by\\_country](https://en.wikipedia.org/wiki/List_of_electoral_systems_by_country)

*Accessed 25 January 2021*

### Coalition Government - 2020

Identification of all countries with a form of coalition government in place.

[https://en.wikipedia.org/wiki/List\\_of\\_countries\\_with\\_coalition\\_governments](https://en.wikipedia.org/wiki/List_of_countries_with_coalition_governments)

Accessed 25 January 2021

## **COVID-19 DATA**

### **Cumulative Covid-19 Deaths per Million, 31 May 2020**

<https://ourworldindata.org/coronavirus-data-explorer?zoomToSelection=true&time=2020-03-01..latest&country=~EuropeanUnion&region=World&deathsMetric=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc>

*Accessed 16 November 2020*

### **Cumulative Covid-19 Deaths per Million – 30 November 2020**

<https://ourworldindata.org/coronavirus-data-explorer?tab=table&zoomToSelection=true&time=2020-03-01..2020-11-30&country=~EuropeanUnion&region=World&deathsMetric=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc>

*Accessed 14 December 2020*

### **Change to Deaths per Million – Six Months 31 May - 30 November 2020**

<https://ourworldindata.org/coronavirus-data-explorer?tab=table&zoomToSelection=true&time=2020-05-31..2020-11-30&country=~EuropeanUnion&region=World&deathsMetric=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc>

*Accessed 14 December 2020*

### **14 Day Case Notification Rate – 4 December 2020**

<https://www.ecdc.europa.eu/en/publications-data/data-national-14-day-notification-rate-covid-19>

*Accessed 14 December 2020*